MALCOLM PIRNIE

**INTEROFFICE CORRESPONDENCE**

**To:** Lower Passaic River Superfund and WRDA Project Teams **Date:** October 11, 2004

**From:** Stephanie Cedro, NNJ

**Re:** Referencing River Miles and Coordinate System

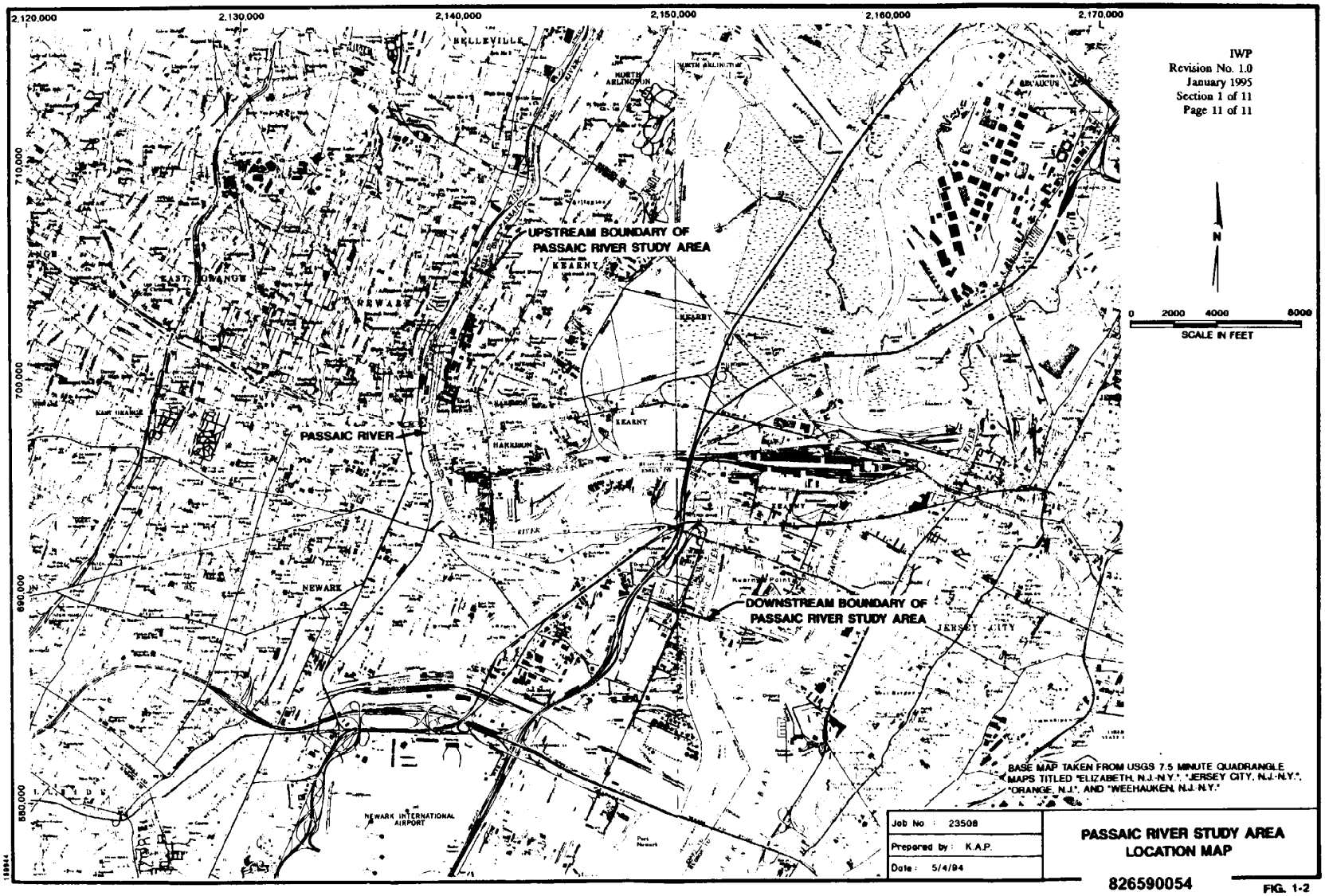
There have been many studies to date done on and along the Lower Passaic River by various entities with different goals. Along with the large amount of data produced came differing, and sometime conflicting, coordinate systems and references to River Miles (RM). The purpose of this memo is to standardize the coordinate system and RM references that are to be used by the Lower Passaic River Superfund and WRDA teams, so that produced reports and plans are consistent and accurate through out.

For the previous TSI study, the Passaic River Study Area boundary was the portion of the Passaic River from the abandoned ConRail Railroad Bridge (located approximately 4,000 feet up-estuary from the red channel junction marker at the confluence of the Passaic River and Newark Bay) to a transect six miles (31,680 feet) up-estuary of this bridge (see attached figure 1-2 from the TSI Work Plan). Station 0+00 corresponded to its down-estuary boundary, the ConRail Railroad Bridge, which is approximately 4,000 feet up-estuary of our RM 0.

For the current Lower Passaic River study, the reference point for RM zero (0) to be used by the project team is at the confluence of the Passaic River with Newark Bay. Please reference the attached map labeled Investigation and Feasibility Study for Remediation and Restoration, Lower Passaic River, New Jersey, USGS Topographic Map for a visual representation. There are two light houses, one located in Essex County, NJ and the other located on Kearny Point in Kearny, NJ on opposite banks that serve as markers. From these light houses an imaginary line was drawn which became RM 0. The following table summarizes the RM intervals considered for each reach within the river.

| Reach | River Miles |
|---|---|
| Harbor Reach | 0-0.9 |
| Point no Point | 0.9-2.2 |
| Harrison | 2.2-4.4 |
| Newark | 4.4-5.8 |
| Kearny | 5.8-6.8 |
| Upstream | 6.8-17.4 |

Attachments




BASE MAP TAKEN FROM USGS 7.5 MINUTE QUADRANGLE MAPS TITLED "ELIZABETH, N.J.-N.Y.", "JERSEY CITY, N.J.-N.Y.", "ORANGE, N.J.", AND "WEEHAUKEN, N.J.-N.Y."

| | |
|---|---|
| Job No : | 23508 |
| Prepared by : | K.A.P. |
| Date : | 5/4/94 |

**PASSAIC RIVER STUDY AREA**
**LOCATION MAP**

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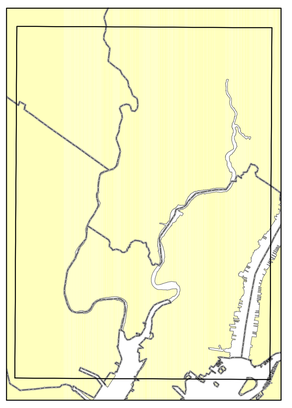
FIG. 1-2



Data Sources:
1. Digital Raster Graphics of Northern New Jersey and surrounding area from USGS.

Coordinates are in NJ State Plane projection.

**Investigation and Feasibility Study for Remediation and Restoration**
**Lower Passaic River, New Jersey**

# USGS Topographic Map

0 2,000 4,000 6,000 8,000 Feet

1 inch equals 2,000 feet

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US Army Corps of Engineers

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